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PPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/051,073		01/22/2002	Takashi Murakami	2001P014480 3393	
21254	7590	04/05/2006		EXAMINER	
		CTUAL PROPER	PAN, YUWEN		
8321 OLD C	OURTHO	USE ROAD		ART UNIT	PAPER NUMBER
SUITE 200				ARTONII	PAPER NUMBER
VIENNA. V	A 22182	2-3817		2618	

DATE MAILED: 04/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		1				
1	Application No.	Applicant(s)				
Office Action Summer	10/051,073	MURAKAMI, TAKASHI				
Office Action Summary	Examiner	Art Unit				
	Yuwen Pan	2618				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the o	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perions are reply within the set or extended period for reply will, by state that the material patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be timed will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status	·					
1)⊠ Responsive to communication(s) filed on <u>02</u>	March 2006					
<u> </u>	his action is non-final.					
3) Since this application is in condition for allow		osecution as to the merits is				
closed in accordance with the practice unde						
Disposition of Claims						
4)⊠ Claim(s) <u>1-8 and 14-18</u> is/are pending in the	application.					
4a) Of the above claim(s) is/are withd						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>9- 13, and 19-21</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	l/or election requirement.					
Application Papers						
9) The specification is objected to by the Exami	ner.					
10) The drawing(s) filed on is/are: a) a		Examiner.				
Applicant may not request that any objection to the	ne drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the corr	ection is required if the drawing(s) is ob	ejected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the	Examiner. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority docume	ents have been received in Applicat	ion No				
3. Copies of the certified copies of the p	riority documents have been receiv	ed in this National Stage				
application from the International Bure						
* See the attached detailed Office action for a li	ist of the certified copies not receive	ed.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 	Paper No(s)/Mail D (38) 5) Notice of Informal F	ate Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:					

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/11/06 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection.

Regarding claim 8, the applicant argues that prior art of record, JP '110, doesn't teach or suggest that power from the battery is supplied via the cable to the radio circuit. The examiner respectfully disagrees because the term "radio circuit" could be any electronic components, such that receiving amplifier (LNA), transmit amplifier, low pass filter, band pass filter, and etc. So anyone of the electronic components by itself or together constitute radio circuit. In other word, radio circuit by itself is a really broad term. Thus, amplifier 7, at least part of radio circuit, is power by the battery 23 indirectly via cable 32.

Furthermore, Nakamura already teaches all the essential elements of applicant's invention in which a wireless device operated both transmission and reception of radio signal and a reception dedicated signal via switches and switch controller. The idea is related to selective diversity antennas techniques in which select the antenna with better reception. Nakamura doesn't expressly teach that how all the electronic elements have been distributed into housings

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and been interconnected by a cable. It is obvious to arrange all the electronic components according to the housing structure of the wireless device. And if there are two housings such as foldable device, all the electronic components must be power by the battery via a power supplier through power supply circuit. Thus, when at least one of electronic components that is located different housing from the power supplier, there must be some connecting element such as cable or wire interconnect both housing and render power to the electronic component via the cable.

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Same arguments apply, mutatis mutandis, to claim 27 and 14-18.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claim 8 is rejected under 35 U.S.C. 102(b) as being anticipated by Wataya 2. (JP09046110).

Wataya discloses a portable telephone set comprising a radio circuit for demodulating a radio signal received by an antenna and transmitted via a cable (item 32, paragraph 27), and a battery (item 9) for supplying power to the radio circuit (paragraph 21), wherein: the battery and the radio circuit are interconnected by the cable, and power from the battery is supplied via the cable to the radio circuit (see figure 1).

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-7, and 14-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura (US006243563B1) in view of Wataya (JP09046110).

Per claim 1, Nakamura discloses a portable telephone (figure 2) set comprising a detector for detecting the better receiving sensitivity one of radio signals received by an exclusive receiving antenna for only receiving radio signals and a transmitting and receiving antenna for transmitting and receiving radio signals (column 3 and lines 25-39), a switch for selecting the radio signal determined in the detector to be the better receiving sensitivity one (column 3 and lines 10-23), and a radio circuit for demodulating the radio signal from the switch (item 6).

Nakamura doesn't expressly teach that how all the electronic elements have been distributed into housings and been interconnected by a cable. Wataya teaches that the switch provided in a first housing, a radio circuit provided in a second housing and the switch and the radio circuit being interconnected by a cable (see figure 1, items, 8, 21, 22, and 32). It would have been obvious to one ordinary skill in the art at the time the invention was made to combine the teaching of Wataya with Nakamura's device such that the transmitter with which attenuation by transmission on the body of a transmitter of an input signal can be compensated via a cable.

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Per claim 2, Nakamura discloses a portable telephone (figure 2) set comprising a detector for detecting the better receiving sensitivity one of radio signals received by an exclusive receiving antenna for only receiving radio signals and a transmitting and receiving antenna for transmitting and receiving radio signals (column 3 and lines 25-39), a switch for selecting the radio signal determined in the detector to be the better receiving sensitivity one (column 3 and lines 10-23), and a radio circuit for demodulating the radio signal from the switch (item 6). Nakamura doesn't expressly teach that the switch provided in a first housing, a radio circuit provided in a second housing and the switch and the radio circuit being interconnected by a cable. Wataya teaches that the switch provided in a first housing, a radio circuit provided in a second housing and the switch and the radio circuit being interconnected by a cable (see figure 1, items, 8, 21, 22, and 32). It would have been obvious to one ordinary skill in the art at the time the invention was made to combine the teaching of Wataya with Nakamura's device such that the transmitter with which attenuation by transmission on the body of a transmitter of an input signal can be compensated via a cable.

Per claim 3, Nakamura discloses a portable telephone (figure 2) set comprising a detector for detecting the better receiving sensitivity one of radio signals received by an exclusive receiving antenna for only receiving radio signals and a transmitting and receiving antenna for transmitting and receiving radio signals (column 3 and lines 25-39), a switch for selecting the radio signal determined in the detector to be the better receiving sensitivity one (column 3 and lines 10-23), and a radio circuit for demodulating the radio signal from the switch (item 6). Nakamura doesn't expressly teach that the switch provided in a first housing, a radio circuit

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provided in a second housing, the switch and the radio circuit being interconnected by a cable, and a battery for supplying power to at least the radio circuit, said battery being provide on a side of the first housing, the switch an the radio circuit being interconnected by a cable and power from the battery being supplied via the cable to the radio circuit. Wataya teaches that the switch provided in a first housing, a radio circuit provided in a second housing and the switch and the radio circuit being interconnected by a cable (see figure 1, items, 8, 21, 22, and 32), and a battery for supplying power (see figure 1 and items 9 and 23) to at least the radio circuit, said battery being provide on a side of the first housing, the switch an the radio circuit being interconnected by a cable and power from the battery being supplied via the cable to the radio circuit. It would have been obvious to one ordinary skill in the art at the time the invention was made to combine the teaching of Wataya with Nakamura's device such that the transmitter with which attenuation by transmission on the body of a transmitter of an input signal can be compensated via a cable.

Per claim 4, Nakamura discloses a portable telephone (figure 2) set comprising a detector for detecting the better receiving sensitivity one of radio signals received by an exclusive receiving antenna for only receiving radio signals and a transmitting and receiving antenna for transmitting and receiving radio signals (column 3 and lines 25-39), a switch for selecting the radio signal determined in the detector to be the better receiving sensitivity one (column 3 and lines 10-23), and a radio circuit for demodulating the radio signal from the switch (item 6), and the individual antennas being secured. Nakamura doesn't expressly teach that the switch provided in a first housing, a radio circuit provided in a second housing and the switch and the radio circuit being interconnected by a cable. Wataya teaches that the switch provided in a first

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housing, a radio circuit provided in a second housing and the switch and the radio circuit being interconnected by a cable (see figure 1, items, 8, 21, 22, and 32). It would have been obvious to one ordinary skill in the art at the time the invention was made to combine the teaching of Wataya with Nakamura's device such that the transmitter with which attenuation by transmission on the body of a transmitter of an input signal can be compensated via a cable.

Per claim 5, Nakamura discloses a portable telephone (figure 2) set comprising a detector for detecting the better receiving sensitivity one of radio signals received by an exclusive receiving antenna for only receiving radio signals and a transmitting and receiving antenna for transmitting and receiving radio signals (column 3 and lines 25-39), a switch for selecting the radio signal determined in the detector to be the better receiving sensitivity one (column 3 and lines 10-23), and a radio circuit for demodulating the radio signal from the switch (item 6), and the individual antennas being secured. Nakamura doesn't expressly teach that the switch provided in a first housing, a radio circuit provided in a second housing, the switch and the radio circuit being interconnected by a cable, and a battery for supplying power to at least the radio circuit, said battery being provide on a side of the first housing, the switch an the radio circuit being interconnected by a cable and power from the battery being supplied via the cable to the radio circuit. Wataya teaches that the switch provided in a first housing, a radio circuit provided in a second housing and the switch and the radio circuit being interconnected by a cable (see figure 1, items, 8, 21, 22, and 32), and a battery for supplying power (see figure 1 and items 9 and 23) to at least the radio circuit, said battery being provide on a side of the first housing, the switch an the radio circuit being interconnected by a cable and power from the battery being

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supplied via the cable to the radio circuit. It would have been obvious to one ordinary skill in the art at the time the invention was made to combine the teaching of Wataya with Nakamura's device such that the transmitter with which attenuation by transmission on the body of a transmitter of an input signal can be compensated via a cable.

Per claims 6, and 14, Wataya further teach that the radio circuit and the cable are connected in parallel via coils and capacitors (see figure 1 and items 10, 17 and 32), and power from the battery is supplied via the coil side to the radio circuit (see item 22), and a radio signal received by either one of the antennas is transmitted via the capacitor side to the radio circuit. Per claims 7 and 15-18, Wataya further teach that the cable is a coaxial cable (see figure 1 and item 32).

Allowable Subject Matter

5. Claims 9- 13, and 19-21 are allowed.

Prior art of record doesn't teach that a portable telephone set including a first housing provided with a first and a second terminals to be connected with a first and second external antennas, and a second housing electrically connected via a coaxial cable and mechanically connected with the first housing, and interrelation and position of each substantial element of the portable phone within the vicinity of the housings.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yuwen Pan whose telephone number is 571-272-7855. The examiner can normally be reached on 8-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anderson D. Matthew can be reached on 571-272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Yuwen Pan March 31, 2006 Matthew Anderson SPE 2618

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